YANLIANG HAN

skywalkerhunter@gmail.com

LANGUAGES AND TECHNOLOGIES

- SQL; Java, C/C++, and C#; ASP.NET, PHP, Python, HTML5, CSS, JavaScript, XML; Matlab; OCaml; Smalltalk.
- MVC, Eclipse, VS; Stored Procedure, Indexing, MySQL; Git, SVN and TFS; Android; Linux, Mac OS; Security, Computer Vision, Algorithms, Responsive UI design.

EMPLOYMENT

Graduate Assistant   **Database and Information Systems Laboratory in Univ. of Illinois**   **Jan 2012 - May 2012**

- Refactor and speed up (by 70%) rendering data list performance from MySQL to .NET website.
- Improved security by encrypting sensitive communications and hashing User passwords.

Software Development Engineer Intern   **Microsoft Corp.**   **Sep 2011 - Dec 2011**

Global Information System for international banking.

- Design the XML schema and implement the Semi-automatic Batch Import, Audit and Publish modules with it.
- Implement the Advanced Search and Statistic Management Modules with Optimized Stored Procedure and Indexing.
- Speed up testing by coordinating 4 teammates executing Web Performance, Load Testing and Performance Analysis.

Research Assistant   **Guangdong Key Laboratory of Information Security**   **Dec 2009 – Aug 2010**

- Implement the MIT Kerberos authentication protocol from sketch/TCP reliable protocol.
- Implement Shamir Visual Secret Sharing across Windows Phone and PC platforms.
- Lead my team and win the 3rd Prize in National Information Security Contest among over 500 top competitors.

Research Assistant   **Media Lab**   **May 2010 – July 2010**

- Implement Feature detection, Segmentation and Numerical Recognition (SVM) for paper money.

EDUCATION

Champaign, IL   **University of Illinois at Urbana-Champaign (UIUC)**   **Spring 2012 - Fall 2013**

M.C.S. in Computer Science   Last-year GPA: 3.445

- Advanced Coursework: Advanced Data Mining; Computer Vision; Applied Cryptography; Object Oriented Programming and Design; Independent Study.
- Graduate Coursework: Text Information Systems; Database Systems; Programming Languages and Compilers; UI Design.

Guangzhou, P.R.C.   **Sun Yat-sen University (SYSU)**   **Fall 2007 - Spring 2011**

B.E. in Software Engineering   In-Major GPA: 3.43

- Selected: Algorithms; Unified Communication; Software Engineering; Numerical Method; Operating Systems.

PROJECTS

- **Open Source Algorithms - Java (2013-Now).** DP, Bit Manipulation, Hash Table/ Set, Linked list, BST and backtracking.
- **Responsive Web Design& Implement (2012-Now).** Multi-platforms responsive web with JavaScript, CSS, PHP, SQL.
- **Algorithms Template Library (ATL) - C++ (2013-2014).** Sorting; BST; Vector; other algorithms and data structures.
- **Automatic Segmentation (2013).** Read tons of papers, extensive experiments, summary and future improvements.
- **Panorama Stitching, Affine Factorization (2013).** Vision with grade A. RANSAC and Homography Transform.
- **Illini Tutor Search (2012).** Selected demo with full credit. With auto tutor matcher and related search.
- **Object Oriented Tic-tac-toe (2013).** Chess game e.g. Ultimate Tic-tac-toe with Artificial Intelligence.
- **Single-pass authenticated encryption (2013).** SHA-3 next generation hashing, paper implementation in JAVA.
- **Simulation System for Grasslands Ecosystems (2009).** Architecture design and JAVA implementation.
- **Android Application (2013-Now):** Cross activities Android application with eclipse and ADT.
- **Python Starter Codes! (2013):** Data structures e.g. dictionary operation, spending calculator.

AWARDS

- 2008-2010 Twice awarded 3rd-Prize Scholarship for Academic Excellence by SYSU
- 2009-2010 3rd Prize in National Information Security Contest issued by The Ministry of Education
- 2009-2010 3rd Prize in ACM Programming Contest held by SYSU
- 2009-2010 3rd Prize in Mobile Terminal Software Innovation Contest